

L Number	Hits	Search Text	DB	Time stamp
2	0	((("2658836").PN.) and (rubber or polystyrene or dimethylsiloxane)	USPAT; US-PGPUB	2002/12/15 14:49
3	0	((("2658836").PN.) and rubber	USPAT; US-PGPUB	2002/12/15 14:49
1	1	("2658836").PN.	USPAT; US-PGPUB	2002/12/15 14:58
6	0	("organic same silicon same polydimethylsiloxane").PN.	USPAT; US-PGPUB	2002/12/15 14:59
7	445	organic same silicon same \$4dimethyl\$1siloxane	USPAT; US-PGPUB	2002/12/15 14:59
8	283	organic same silicon same polydimethyl\$1siloxane	USPAT; US-PGPUB	2002/12/15 15:01
9	68	organic same silicon same polydimethyl\$1siloxane same resin\$4	USPAT; US-PGPUB	2002/12/15 15:07
10	6	(organic same silicon same polydimethyl\$1siloxane same resin\$4) and (flower or preserv\$5)	USPAT; US-PGPUB	2002/12/15 15:07
11	0	(organic same silicon same polydimethyl\$1siloxane same resin\$4) and flower	USPAT; US-PGPUB	2002/12/15 15:07
12	165	polydimethyl\$1siloxane and flower	USPAT; US-PGPUB	2002/12/15 15:07
13	6	polydimethyl\$1siloxane and (flower same preserv\$5)	USPAT; US-PGPUB	2002/12/15 15:09
14	30	plasti\$1dip	USPAT; US-PGPUB	2002/12/15 15:47
15	1	plasti\$1dip and flower	USPAT; US-PGPUB	2002/12/15 15:13
16	21	427/4.ccls. and dehydrat\$4 and (saturat\$4 or impregnat\$4)	USPAT; US-PGPUB	2002/12/15 15:47
17	2	(427/4.ccls. and dehydrat\$4 and (saturat\$4 or impregnat\$4)) and \$siloxane	USPAT; US-PGPUB	2002/12/15 15:48
18	1	(427/4.ccls. and dehydrat\$4 and (saturat\$4 or impregnat\$4)) and \$5dimethyl\$1siloxane	USPAT; US-PGPUB	2002/12/15 15:48

DOCUMENT-IDENTIFIER: US 20020137838 A1

TITLE: Compounding filled silicone compositions

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[0024] In one embodiment, a treating agent is mixed into the filler along with the processing fluid or as the processing fluid to reduce filler silanol groups, to improve dispensability of the filler and/or to reduce the time required for aging of the silicon rubber, to prevent crepe hardening and/or to regulate plasticity. The treating agent can be the silanol-reacting reagent or another filler treating agent. The treating agent is preferably a silanol reactant treating agent when the filler is a silica or other silanol containing filler. The treating agent can be an organosilane, a low-viscosity polysiloxane or a silicone resin, which has a silanol group and/or an alkoxy group having 1 to 6 carbon atoms. Examples include diphenyl-silanediol, dimethylsilanediol, methyltriethoxysilane and phenyltrimethoxysilane. The low-viscosity polysiloxane may contain one or more kinds of organic groups selected from a methyl group, a phenyl group, a vinyl group and a 3,3,3-trifluoropropyl group. Preferred silanol-reactant treating agents include silanol-stopped polydimethylsiloxane, octamethylcyclotetrasiloxane (D4) and hexamethyldisilazane (HMDZ). While the filler can be pretreated as described, a particular advantage is that raw, untreated filler can be used in the inventive process.